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APPLICATION NO.	TION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/060,865	10/060,865 01/29/2002		George P. Merrill	10559-738001 / P13587	6908	
20985	7590	09/10/2004		EXAMINER		
FISH & RI		•	PEIKARI,	PEIKARI, BEHZAD		
12390 EL C SAN DIEGO				ART UNIT	PAPER NUMBER	
	-, ·			2186	8	
				DATE MAILED: 09/10/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

				,:			
	Applica	ation No.	Applicant(s)				
•	10/060	,865	MERRILL ET AL.				
Office Action Summary	Examir	ner	Art Unit				
	B. Jame	es Peikari	2186				
The MAILING DATE of this comm Period for Reply	unication appears on	the cover sheet with the d	correspondence address	ş			
A SHORTENED STATUTORY PERIOD	SOD DEDIVIS SET	TO EVDIDE 2 MONTH	(S) EDOM				
THE MAILING DATE OF THIS COMMU - Extensions of time may be available under the provision after SIX (6) MONTHS from the mailing date of this compared in the period for reply specified above is less than thirty of the period for reply is specified above, the maximum Failure to reply within the set or extended period for really reply received by the Office later than three month earned patent term adjustment. See 37 CFR 1.704(b)	JNICATION. ons of 37 CFR 1.136(a). In no ommunication. y (30) days, a reply within the s n statutory period will apply and apply will, by statute, cause the ahs after the mailing date of this	event, however, may a reply be tirestatutory minimum of thirty (30) day d will expire SIX (6) MONTHS from application to become ABANDONE	nely filed s will be considered timely. the mailing date of this commun () (35 U.S.C. § 133).	ication.			
Status							
1) Responsive to communication(s)	filed on <u>01 July 2002</u> .						
2a) This action is FINAL .	2b)⊠ This action is	s non-final.					
3) Since this application is in condition	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the pra	ctice under Ex parte	Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims							
4) Claim(s) 1-40 is/are pending in the	e application.						
4a) Of the above claim(s) is	s/are withdrawn from	consideration.					
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-40</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to res	triction and/or election	n requirement.					
Application Papers							
9)⊠ The specification is objected to by	the Examiner.						
10) The drawing(s) filed on is/a	re: a) accepted or	b) objected to by the	Examiner.				
Applicant may not request that any ob-	ojection to the drawing(s	s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) includ	•	-,,		` '			
11) The oath or declaration is objected	I to by the Examiner.	Note the attached Office	Action or form PTO-15	i2 .			
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a clai a) All b) Some * c) None of 1. Certified copies of the priori 2. Certified copies of the priori 3. Copies of the certified copie application from the Interna	: ity documents have b ity documents have b es of the priority docu	een received. een received in Applicati ments have been receive	on No	e			
* See the attached detailed Office ac	•	, ,,	ed.				
Attachment(s)							
)	/ (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
(PTO-1449) Paper No(s)/Mail Date <u>7</u> .			ratent Application (PTO-152)				

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DETAILED ACTION

Specification

- 1. The abstract is objected to -- Where applicable, the abstract should include the following:
 - (1) if a machine or apparatus, its organization and operation;
 - (2) if an article, its method of making;
 - (3) if a chemical compound, its identity and use;
 - (4) if a mixture, its ingredients;
 - (5) if a process, the steps.
- 2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-10, 17-29, 31-33 and 38-40 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Parker, et al., "Hardware/Software Tradeoffs in a Variable Word Width, Variable Queue Length Buffer Memory".

Parker et al. teach a system for determining, configuring and adjusting a number of queue parameters including queue length (i.e., "depth") and word width (i.e., "queue entry size"), and utilizes queue status flags including full (F) and empty (E), and queue select lines to select from a number of queues, end of queue and start of queue indicators, and determining a next access (i.e., read or write) address in the queue to operate upon via the queue selection circuitry (i.e., pointer). Note also the teach of operation with disk memory (column 2, page 159).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 11-15 and 34-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Parker et al., in view of Todd et al., U.S. 6,359,901.

Parker et al. teach the invention as claimed, but fails to mention the use of a slave processor. As written, the slave processor of the claims does not appear to have any particular effect on the system. It is merely connected.

In any case, the use of slave processors was well known, and Meto et al. taught the use of such a slave processor (e.g., processor 60, in the slave station) in a system that included the use of queues (e.g., column 4, line 65).

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate a slave processor such as that of Meto et al. into the Parker et al. system, since (1) slave processors, in addition to the host processors, formed a multiprocessor system, which was generally more efficient than the use of several equivalent uniprocessor systems, and (2) Meto et al. was specifically designed for use with queues, as noted above.

7. Claims 16 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Parker et al., in view of Todd et al., further in view of Kreifels, EP 0 342 107 A2.

As for the additional features of indicating nearly full and nearly empty queue conditions, this was not taught by the combination above. However, this feature was explicitly taught my Kreifels.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the additional features of indicating nearly full and nearly empty queue conditions of the Kreifels system into the Parker et al./Todd et al. combination disclosed above since this would provide a better and more efficient indication of the system of how to select and/or manage the queues in the Parker et al. disclosure by a predictive indication of which queues were about to fill up or get emptied.

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Allowable Subject Matter

8. While the does appear to be allowable subject matter in applicant's disclosure, such features have not been incorporated into the present claims. In this regard, applicant is welcome to contact the examiner at the telephone number provided below.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Peikari whose telephone number is (703) 305-3824. The examiner is generally available between 8:00 am and 9:30 pm, EST, Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Kim, can be reached at (703) 305-3821.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 746-7239 (Official communications)

or:

(703) 746-7240 (for Informal or Draft communications)

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or:

(703) 746-7238 (for After-Final communications)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

B. James Peikari **Primary Examiner** Art Unit 2186

9/7/04

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